OIPE

RAW SEQUENCE LISTING   DATE: 01/30/2002
PATENT APPLICATION: US/09/933,797   TIME: 18:29:26

Input Set : N:\Crf3\RULE60\09933797.raw
Output Set: N:\CRF3\01302002\I933797.raw

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 1 <110> APPLICANT: Robert A. Sikes et al.
 2 <120> TITLE OF INVENTION: Isolation and Use of Fetal Urogenital
 3       Sinus Expressed Sequences
 4 <130> FILE REFERENCE: 9901-007-999
 5 <140> CURRENT APPLICATION NUMBER: 09/933,797
 6 <141> CURRENT FILING DATE: 2001-08-22
 8 <150> PRIOR APPLICATION NUMBER: US/09/482,933
 9 <151> PRIOR FILING DATE: 2000-01-14
12 <150> PRIOR APPLICATION NUMBER: PCT/US99/10746
13 <151> PRIOR FILING DATE: 1999-05-14
14 <150> PRIOR APPLICATION NUMBER: 60/085,383
15 <151> PRIOR FILING DATE: 1998-05-14
16 <160> NUMBER OF SEQ ID NOS: 811
17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 601
21 <212> TYPE: DNA
22 <213> ORGANISM: Murine
23 <220> FEATURE:
24 <221> NAME/KEY: misc_feature
25 <222> LOCATION: (1)...(601)
26 <223> OTHER INFORMATION: n = A,T,C or G
27 <400> SEQUENCE: 1
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29       ggaggaggcg ctcagtttct tctccccgta ccaagacaac ttcgaggaga ggacggtctc   120
30       cttcacmcaa acctcgtnng actccaaaga tccvgatccc gctcacggag agagaaamcc   180
31       agaacaancc cgacgcagag atagatctgg atcatctcag tcaacatctc gaagaagaca   240
32       gaggagccgg tctagatcac gagttactcg gagacrgagg ggtggctctk gttaccattc   300
33       aagatcacct accagacagg agagttctcg aacctcctct agacgcagaa gaggccgctn   360
34       cccsgacacc cttgaccagt cggaagcgat ctcgatcaag aacatcacca gctccttgga   420
35       mgcgctctag atctsgagcc tcaccagcta ctcatsnggc ggtccaggtc magaacacca   480
36       ctgataagcc gacgtaggtc cagatctcgg acctcacctg tgagtaggag acggtcaagg   540
37       tcagtgaata ggcgtagatc tcgatcaaga gcatccccag tgagtcgaag gcgatccagg   600
38       t                                                                   601
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 243
42 <212> TYPE: DNA
43 <213> ORGANISM: Murine
44 <400> SEQUENCE: 2
45       gaattcgtta tattttaaaa ctgctacttg tataaatctt tcccaaatac cgtgggtttt    60
46       gtgcatagtt tttacagata tggatttagc agactgtctt ttcactgtta tgggtttttt   120
47       agaagttgag cattttttatg gctgataaag tgaatgttac ttctaagtgc tcacttcttt   180
48       tatcagaagt gaccctcagt ccattgtgct acsttagctt gcctctttgg taataatkcg   240
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ENTERED

W--> 13
W--> 30
W--> 31
W--> 33
W--> 35

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    52 <211> LENGTH: 209
    53 <212> TYPE: DNA
    54 <213> ORGANISM: Murine
    55 <220> FEATURE:
    56 <221> NAME/KEY: misc_feature
    57 <222> LOCATION: (1)...(209)
    58 <223> OTHER INFORMATION: n = A,T,C or G
    59 <400> SEQUENCE: 3
    60        gaattcatcg cacaaaaacc ctggtatgaa gtcactttcc aatggaattc caaagcctaa    60
    61        ggatgaacta tcctgcctga taaaaaccaa cagctggcct gatcgctcag aacacctgtg   120
W--> 62        acatgtcctc cctagamggg acagagtgat agttcatgtt tgnnkgtgtg tggactawyt   180
    63        kgktactacc tttagagcaa ctgatktat                                    209
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    66 <211> LENGTH: 357
    67 <212> TYPE: DNA
    68 <213> ORGANISM: Murine
    69 <220> FEATURE:
    70 <221> NAME/KEY: misc_feature
    71 <222> LOCATION: (1)...(357)
    72 <223> OTHER INFORMATION: n = A,T,C or G
    73 <400> SEQUENCE: 4
    74        gaattcgggg tgtcctactg actgatattc atttgatttt attcatttgg attcatacct    60
W--> 75        cactgtcata gccgcaaawt ttatttaacc catgnccttb ccmgatgcya ggtgagatct   120
    76        acytrgtgaa cttaawwaam gcagactggg acctaggaaa attcaccatt ttcattgtaa   180
    77        tgttctcggt tttgcctta tccatagaaa agtgggctct tgggaatgat gaggacactg   240
    78        aggggtggag gatacmaacs gaaaagctca tggagataga gtkcaagcag agagtgtggg   300
    79        tgctyaaata ctcaagagat ttaattaagt ctcgctctca awtgctataa gtttaaa      357
    81 <210> SEQ ID NO: 5
    82 <211> LENGTH: 331
    83 <212> TYPE: DNA
    84 <213> ORGANISM: Murine
    85 <220> FEATURE:
    86 <221> NAME/KEY: misc_feature
    87 <222> LOCATION: (1)...(331)
    88 <223> OTHER INFORMATION: n = A,T,C or G
    89 <400> SEQUENCE: 5
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    91        gcaggaggta gagatcgatg ctgctgcaga cttgagtggg cctcaggaag tagagaagga   120
W--> 92        ggagnccca ggctcccagg accccgagca cacagtgacc cantggcctg gnagaaggcg   180
W--> 93        gaagctccag gracmgttag cagtkctgcy kdarggscnn yaaggamcct ncyygtkcyc   240
W--> 94        cccanggatt cagngagnca gttccagara aaatyctgta cagtktacac acggtgtsca   300
    95        tatcgtggag aractcacat ctctgtgcgc g                                   331
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    98 <211> LENGTH: 331
    99 <212> TYPE: DNA
   100 <213> ORGANISM: Murine
   101 <220> FEATURE:
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     102 <221> NAME/KEY: misc_feature
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     105 <400> SEQUENCE: 6
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     107      atgtggctga gttctgtgtt tggaaatgtg ttgctgatgc acatgatgaa agaagagccc     120
     108      agatgaccct aactcttcag gaaawdcaac catctatatc agtcttatct ctgctctcaa     180
W--> 109      aatgctctca gagagtaaam mmaaatggcc cttnggtata cnyctctccg ttttgttttt     240
W--> 110      ttaaagrwtg cctagkaatt tttnaaaaag kgcaaaagrt gtktyytgag atttyctttt     300
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     113 <210> SEQ ID NO: 7
     114 <211> LENGTH: 427
     115 <212> TYPE: DNA
     116 <213> ORGANISM: Murine
     117 <220> FEATURE:
     118 <221> NAME/KEY: misc_feature
     119 <222> LOCATION: (1)...(427)
     120 <223> OTHER INFORMATION: n = A,T,C or G
     121 <400> SEQUENCE: 7
W--> 122      gaattccttg caggchgcct gvggkvcnac cnttctgaga gccagaaaac tgctctcagn      60
     123      tacattcctg gcagctcctg accctgagcc tctattcaca ttccttcaca aaacggccca     120
     124      ggctcaaatt gaaaaggaaa taaaagagac cacaataaaa ttgctaacat acggagtaac     180
     125      agagtgatct gtgacacaat tctgctccat gttttccttt cccttcaagg acagctgggc     240
     126      agccactgag gcctgtggac aaggatccat gatcatttcc aatgttcaga gagtccagca     300
     127      accaccaggc aagggctgtt ggcacytagg aatgggtctg cttgcatgtc aagggaccaa     360
     128      tgtggtccta caaaactcat ttctactgaa atgtcatctt ctgaachttg ggaaataatg     420
     129      cmctaga                                                             427
     131 <210> SEQ ID NO: 8
     132 <211> LENGTH: 520
     133 <212> TYPE: DNA
     134 <213> ORGANISM: Murine
     135 <220> FEATURE:
     136 <221> NAME/KEY: misc_feature
     137 <222> LOCATION: (1)...(520)
     138 <223> OTHER INFORMATION: n = A,T,C or G
     139 <400> SEQUENCE: 8
     140      gaattccggc cgtgctccgt ccttcgctcc ktgtyccgtc asrcactgtg agggstcagc      60
W--> 141      gwgaggtcgg tggggttagg naacgcggcg gcggcggcgg cggcggcggc ggctcctcct     120
W--> 142      ccnaagatct gagcagggtg ccagaacagg natgtacacg ctgctttcgg gattgtacaa     180
     143      gtacatgttc cagaaggatg aatactgcat cctgatcctg ggcctggaca atgctgggaa     240
W--> 144      gacggtaggt ccctgctctc tcaccagttc ccattccctg cctgatctaa nccccgccc      300
     145      caaggctaca ggttagtagt caccagcctc ctgaagatca agccacaggs agaggcgtgc     360
W--> 146      atggctgcat ngggtgtgaa gggataggtg ggaaggacac cagaaaacta ctctagctgc     420
W--> 147      tgctatctna mccccctctc ttttttcct cagactttcc tggaacagtc aaaaacacgc     480
     148      tttaacaaga actacaagga attccaccac actggcggcc                         520
     150 <210> SEQ ID NO: 9
     151 <211> LENGTH: 465
     152 <212> TYPE: DNA
     153 <213> ORGANISM: Murine
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     155  <221> NAME/KEY: misc_feature
     156  <222> LOCATION: (1)...(465).
     157  <223> OTHER INFORMATION: n = A,T,C or G
     158  <400> SEQUENCE: 9
     159       gaattctgtt aatgcacctc tgcctccacg gaaagaacaa gaaatgaaag aacctcctta      60
     160       ttcatctggc tacaatcaaa attttacttc atcaagtaca cagacagtat cccaatgcca     120
     161       gctcccagct gtacacatag accagacaac tcagcctcca gagactggta tgacctctgc     180
     162       atatattctt tataagtacc acatgccaac ttkgtgcttt actggagtac cctctatags     240
     163       ccytctgaaa acttagacag kagcctttca agkaaacart ctgtagtgcc cytacarctg     300
W--> 164       traatactta tctctttaat gtnttgtctg gkagaaagac attttgatgt attttcctcc     360
     165       atttagttaa gtttacctct agtggagaat tagttaaacc actttggctc ctgaagggtc     420
W--> 166       tcatgtgcat atgcgctgta ctctyccaag agcdntgtgg attct                       465
     168  <210> SEQ ID NO: 10
     169  <211> LENGTH: 541
     170  <212> TYPE: DNA
     171  <213> ORGANISM: Murine
     172  <400> SEQUENCE: 10
     173       gaattccttc ctgtaaggct acttttcttt tttctacttc cttttccagc aattcatagt      60
     174       taggcttttt cctggtataa agtctaagcg tctctatgca gatttcctga atctcctctt     120
     175       ctgtggtacc aaacagaaga aaccaatggg gccgagttgg caagggaatt tgaagtgctc     180
     176       tagctgcaag gtagatacaa gcacatgcta tagtctctgg ttgaaagcga acaaagacat     240
     177       tggttcgaag actgtcattc atgtaattcc aggcagtttg aaccagggtt tggttacgtt     300
     178       cacattctaa gacttgtaaa tacattacaa tgatcttatg gggatgcttg acatgaacac     360
     179       aaaatcccaa ctcctttagc accctcctct ctgccttgat aacttgattt ttggtgttaa     420
     180       tgtagttctg atcaaggatc aggggggcttg gagtccyttt tccycttaac tggcggaggt     480
     181       ggtggaatac attaatcaca tctctwattc ttyttggcgc ttcttcgatt tttgacscaa     540
     182     . g                                                                     541
     184  <210> SEQ ID NO: 11
     185  <211> LENGTH: 330
     186  <212> TYPE: DNA
     187  <213> ORGANISM: Murine
     188  <400> SEQUENCE: 11
     189       gaattcgctg cgtcgggcgt gcgtggagct cgctggaact atggcgtccg ggcctcaccc      60
     190       gacctcgacc gctgccgccg ccgccgccgc tgccgcctcc gcctcgtccg ccgccccgag     120
     191       cgcgggcggc tccagctccg gcacgaccac cacgacgacg accacgaccg gagggatcct     180
     192       gatcggcgac cgcctgtatt cggaggtgtc gctcaccatc gaccactcgc tgatcccgga     240
     193       ggagcggctc tcgcctaccc cgtccatgca ggacggcctg gacctgccca gcgagacgga     300
     194       tctkcgcatc ttgggstgcg agctchatcc                                       330
     196  <210> SEQ ID NO: 12
     197  <211> LENGTH: 330
     198  <212> TYPE: DNA
     199  <213> ORGANISM: Murine
     200  <400> SEQUENCE: 12
     201       gaattcgctg cgtcgggcgt gcgtggagct cgctggaact atggcgtccg ggcctcaccc      60
     202       gacctcgacc gctgccgccg ccgccgccgc tgccgcctcc gcctcgtccg ccgccccgag     120
     203       cgcgggcggc tccagctccg gcacgaccac cacgacgacg accacgaccg gagggatcct     180
     204       gatcggcgac cgcctgtatt cggaggtgtc gctcaccatc gaccactcgc tgatcccgga     240
     205       ggagcggctc tcgcctaccc cgtccatgca ggacggcctg gacctgccca gcgagacgga     300
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206           tctkcgcatc ttgggstgcg agctchatcc                      330
208 <210> SEQ ID NO: 13
209 <211> LENGTH: 530
210 <212> TYPE: DNA
211 <213> ORGANISM: Murine
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (1)...(530)
215 <223> OTHER INFORMATION: n = A,T,C or G
216 <400> SEQUENCE: 13
217           gaattcgggg ggtcttcctg ctcttgaagc actgggtgga acggggtccc agtagccgca   60
W--> 218      ctcagcctta gggtctgcat cccattaggt ttctagggct gcaggggctg caggaccang  120
W--> 219      ggccatgngc tccntncact tgaccctgca gctgggtgtm aganagtcct gtknggttcn  180
W--> 220      cacctymagg ggatgtycct accmacnttn cacctkctca agnctycact gtctggggcc  240
W--> 221      tgtgngctct cncaacagct tcttccttcc tttgcccttc gtgtcagcca gcagccttgc  300
W--> 222      caagtgtttg ttwatttwat actttgtgnt ttttgagaca gtcacatcaa ggttgaactt  360
W--> 223      agaacccaag atccnyactg ctatcacccc ctgaatactg gggnttccna gngtgtnnnn  420
W--> 224      cctgggntcc manncctcag gacnacnnnn cttasvnnag gatanccgta tcacgtnctt  480
W--> 225      gggsnccatc ccttttttcc ccactacana gdaagnnnnn ncccgawytc               530
227 <210> SEQ ID NO: 14
228 <211> LENGTH: 537
229 <212> TYPE: DNA
230 <213> ORGANISM: Murine
231 <400> SEQUENCE: 14
232           gaattccttg ctgtgacaca tttttttctag taagtgttac tctttcaatc aaaacccta   60
233           taccaatgga gcttaattta ggtagtgaat tagttcctaa atagatcagt gattgtgaac  120
234           aaggcaataa aaagaaaacc tctaatggta tcaagtgttc ccataagtac tttgtataca  180
235           tgtggatgtg tgttggtgtg catgcacata tgtgtgcatg tgtgtggatt gcgaaggaca  240
236           gcctttggtg tcattcctca ggtggtgtcc accttgtttt gaagagatag gagtgtcaca  300
237           ctgaacctgc agcttgctga ttcagagtac cagggacatg cctggcttga cctctccaac  360
238           actgggatca caaggaactt tcgtcagcag gtcttgchtr kwtgaaatag ttgagaggga  420
239           ctgcactccg atcttcacac ttgcacataa tgcatattgc caaatggccc atctccttga  480
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242 <210> SEQ ID NO: 15
243 <211> LENGTH: 302
244 <212> TYPE: DNA
245 <213> ORGANISM: Murine
246 <400> SEQUENCE: 15
247           ggaattccct gcctctgtaa ctccttbacc caattcttag cccgtgcaaa tgtatctgtg   60
248           ttggtgatgt catagaccac aatggctgct tgggcccccg atagtacatc ggggccaggc  120
249           tgtgatagck ctcttggcca gctgtgtycc agatctcaaa cttgaccgtt gtatcgtcta  180
250           agcagacagt ctgtgtgagg aaakttgctc caattgtgct ctyctggtac tcatggaact  240
251           kccccttkac maagcggagg dccaggctgg actttbccac ggcagtytck tccaagaggd  300
252           cc                                                                 302
254 <210> SEQ ID NO: 16
255 <211> LENGTH: 312
256 <212> TYPE: DNA
257 <213> ORGANISM: Murine
258 <400> SEQUENCE: 16
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L:30  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:31  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:33  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:35  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:62  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:75  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:92  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:93  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:94  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
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L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
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L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
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L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
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L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42